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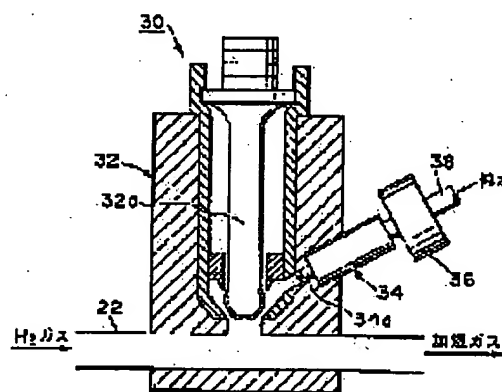
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(54) SUPPLY GAS HUMIDIFIER FOR FUEL CELL SYSTEM

(57)Abstract:

PURPOSE: To provide a humidifier for a fuel cell system with which the whole size of the fuel cell system can be downsized.

CONSTITUTION: A humidifier 30 composed of an ultrasonic wave generator 32, an injector 34 and a heater 36 is arranged in a hydrogen supply pipe 22 connected to a solid high polymer electrolytic fuel cell. A quantity of pure water injected from the injector 34 is controlled so that a moisture quantity contained in electrolyte becomes a quantity according to a load of the fuel cell, and in this injected pure water, the atomization is promoted by the ultrasonic wave generator 32. This pure water is heated up to a reaction temperature of the fuel cell 12 by the heater 36.



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